## From the INTERNATIONAL SEARCHING AUTHORITY

NOTIFICATION OF TRANSMITTAL OF PEPPER HAMILTON LLP THE INTERNATIONAL SEARCH REPORT AND Attn. Miller, Raymond A. THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION One Mellon Center, 50th Floor 500 Grant Street DOCKET**E**D Pittsburgh, PA 15219 UNITED STATES OF AMERICA OCT 29 2004 (PCT Rule 44.1) Date of mailing (day/month/year) 26/10/2004 Applicant's or agent's file reference FOR FURTHER ACTION 126457.00802 See paragraphs 1 and 4 below International application No. International filing date (day/month/year) PCT/US2004/022350 13/07/2004 Applicant MYKROLIS CORPORATION

The applicant is hereby notified that the international search report and the written opinion of the International Searching 1. X Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the

International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office Guide, Volume II, National Chapters and the WIPO Internet site.

2004

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Petra Königsdo

Authorized officer

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

#### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

## The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
   "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]:
   "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

## Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

## Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

## PA IT COOPERATION TREATY

## **PCT**

### **INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220						
126457.00802			as, where applicable, item 5 below.						
International application No.	International filing date (day/month/year)		(Earliest) Priority Date (day/month/year)						
PCT/US2004/022350	13/07/2004		08/08/2003						
Applicant	<del></del>								
MYKROLIS CORPORATION									
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Search	ching Auth	nority and is transmitted to the applicant						
This International Search Report consists	of a total of she	ets.							
X It is also accompanied by	a copy of each prior art document cit	ed in this	report.						
language in which it was filed, unli	ess otherwise indicated under this ite search was carried out on the basis o	m.	sis of the international application in the ation of the international application furnished to						
	` ''	disclosed	in the international application, see Box No. I.						
2. Certain claims were four									
3. Unity of invention is lacking (see Box III).									
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With regard to the title,     The text is approved as sul	nmitted by the continues								
	ornitted by the applicant. ned by this Authority to read as follow	ıs:							
	,,	-,							
·									
5. With regard to the abstract,									
X the text is approved as sub	omitted by the applicant.		İ						
the text has been establish	ed, according to Rule 38.2(b), by this	S Authority	as it appears in Box No. IV. The applicant						
may; within one month from	n the date of mailing of this internation	nal search	report, submit comments to this Authority.						
6. With regards to the <b>drawings</b> ,									
a. the figure of the <b>drawings</b> to be published with the abstract is Figure No. 3b									
X as suggested by th	• •								
	Authority, because the applicant faile								
as selected by this Authority, because this figure better characterizes the invention.  b. none of the figures is to be published with the abstract.									
5. Li Hone of the lightes is to be	published with the abstract.		·						

## P. ENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

То:		PCT				
see form PCT/IS/	A/220	INTERNATIO	TEN OPINION OF THE NAL SEARCHING AUTHORITY PCT Rule 43 <i>bis</i> .1) re form PCT/ISA/210 (second sheet)			
Applicant's or agent's file reference see form PCT/ISA/220	е	FOR FURTHER See paragraph 2 belo				
International application No. PCT/US2004/022350	International filing dat	e (day/month/year)	Priority date (day/month/year) 08.08.2003			
International Patent Classification B24D5/10	(IPC) or both national classificati	on and IPC				
Applicant MYKROLIS CORPORATION						
This opinion contains i	This opinion contains indications relating to the following items:					
☐ Box No. I Basis o	Box No. I Basis of the opinion					
☐ Box No. II Priority						
		egard to novelty, inventiv	ve step and industrial applicability			
	f unity of invention					
Box No. V Heasor applica	Box No. V Reasoned statement under Rule 43 <i>bis</i> .1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	n documents cited					
	defects in the international a	• •				
	observations on the internat	ional application				
2. FURTHER ACTION						
If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.						
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
For further options, see F	orm PCT/ISA/220.					
3. For further details, see no	otes to Form PCT/ISA/220.					
Name and mailing address of the IS	SA:	Authorized Officer	na Pitra.			

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# IAP9 Rec<sup>i</sup>d PCT/PTO 01 FEB 2006 International application No.

PCT/US2004/022350

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

_	N	. I. Design of the eminion				
	Box N	o. I Basis of the opinion				
1.	With re	With regard to the <b>language</b> , this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item.				
	laı	his opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)).				
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
	a. type of material:					
		a sequence listing				
		table(s) related to the sequence listing				
b. format of material:						
		in written format				
		in computer readable form				
	c. time	of filing/furnishing:				
		contained in the international application as filed.				
		filed together with the international application in computer readable form.				
		furnished subsequently to this Authority for the purposes of search.				
3.	ha cc	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as opropriate, were furnished.				
4.	Additio	onal comments:				

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/022350

	Вох	No. II	Priority		· <del>····</del>	
١.	⊠	The fol	lowing document has	s not been	furnished:	:
		$\boxtimes$	copy of the earlier a	pplication	whose pric	ority has been claimed (Rule 43 <i>bis</i> .1 and 66.7(a)).
			translation of the ea	rlier applic	cation who	se priority has been claimed (Rule 43 <i>bis</i> .1 and 66.7(b)).
		Conse	quently it has not been heless been establish	en possible ned on the	e to conside assumption	ler the validity of the priority claim. This opinion has on that the relevant date is the claimed priority date.
2.		This of		blished as les 43 <i>bis</i> .	if no priori	ity had been claimed due to the fact that the priority claim  Thus for the purposes of this opinion, the international
3.	Add	ditional	observations, if nece	ssary:		
_					- Dula 42	bis.1(a)(i) with regard to novelty, inventive step or
	Bo	x No. V Iustrial	Reasoned stater applicability; citation	nent und ons and e	er Hule 43 xplanation	ns supporting such statement
1		atement				
•				Vasi	Claims	2,3,7,12-20,23,25-30,32,33,37,46,52,56,57,63,64
	No	velty (N	l)	Yes: No:	Claims	1,4,6,8,31,34,38,39,41-44,48-50,55
				140.	Olalillo	1,1-1-1-1
	lnv	entive :	step (IS)	Yes:	Claims	10 50 50 50 10 45 47 50 54 50 54 50 60 60 65 60
				No:	Claims	5,9-11,21,22,24,35,36,40,45,47,50,51,53,54,58-62,65-69
	Inc	duetrial	applicability (IA)	Yes:	Claims	1-69
	1110	20011101	ωррσω, (,	No:	Claims	
2	2. Ci	tations	and explanations			
	ee	e sena	rate sheet			
	30	,c copu				

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Certain observations on the international application

see separate sheet

Box No. VIII

#### Re Item V.

1 The following documents are referred to in this communication:

D1: FR 1 109 177 A (TECH NOUVELLES SOC D) 23 January 1956

D2: US 5 247 765 A (QUINTANA JESUS B) 28 September 1993

- 2 CLAIMS 1,4,6,8,31,34,38,39,41-44,48-50,55
- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1,4,6,8,31,34,38,39,41-44,48-50,55 is not new in the sense of Article 33(2) PCT.
  - Document **D1** discloses all features present in the aforementioned claims, their subject-matter therefore not being new.
- 2.2 Claims 5,9-11,21,22,24,35,36,45,50,51,62,66-68 do not meet the criteria of Article 33(1) PCT, because their subject matter does not involve an inventive step in the sense of Article 33(3)PCT.

This is in view of a combination of prior art documents D1 and D2.

### Re Item VIII.

Although claims 1,9,12,21,31,55,62 (article) and 41,48 (method) have been drafted as separate independent claims, they relate effectively to the same subject-matter and differ from each other only with regard to the definition of the subject-matter for which protection is sought. The aforementioned claims therefore lack conciseness and as such do not meet the requirements of Article 6 PCT.